

CLAIMS:

1. Method for the plasma-nitriding of precipitation-hardenable stainless steels or maraging steels, characterized in that the maraging steel is a stainless maraging steel, and the plasma-nitriding is carried out at a temperature below 500°C.
- 5 2. Method according claim 1, characterized in that stainless steel products, like shaver parts, machine parts, and cutting tools, can be produced in required dimensions, before the plasma-nitriding is carried out.
3. Method according to claim 1 or 2, characterized in that the plasma-nitriding is
10 carried out simultaneously with or consecutively to precipitation-hardening.
4. Method according to any of the foregoing claims, characterized in that the plasma-nitriding and/or precipitation-hardening is carried out at a temperature chosen to lie between 300° and 500°C, preferably from 370 to 380°C, more preferably 375°C.
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5. Shaver cap for an electric shaver, made of maraging or precipitation-hardenable stainless steel, characterized in that the maraging steel or stainless steel shaver cap is plasma-nitrided at a temperature below 500°C.
- 20 6. Cutting device made of maraging or precipitation hardenable stainless steel, characterized in that that the maraging steel or stainless steel is plasma-nitrided at a temperature below 500°C.
7. Electric shaver comprising at least one of the cutting elements according any
25 of the claims 1 to 6.